
INTERNATIONAL STANDARD



518

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Photography — Camera accessory shoes, with and without electrical contacts, for photoflash lamps and electronic photoflash units

iTeh STANDARD PREVIEW
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Photographie — Griffes pour accessoires d'appareils de prises de vue, avec et sans contact électrique pour lampes à éclairs et équipements électroniques à éclairs

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ISO 518:1977

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Descriptors : photography, cameras, accessories, flash lamps, fasteners, mountings, dimensions.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 518 was developed by Technical Committee ISO/TC 42, *Photography*, and was circulated to the member bodies in March 1976.

It has been approved by the member bodies of the following countries :

Australia	Germany	South Africa, Rep. of
Austria	Italy	Spain
Belgium	Japan	Turkey
Canada	Korea, Rep. of	United Kingdom
Czechoslovakia	Mexico	U.S.A.
Egypt, Arab Rep. of	Romania	U.S.S.R.

No member body expressed disapproval of the document.

This International Standard cancels and replaces ISO Recommendation R 518-1966, of which it constitutes a technical revision.

Photography – Camera accessory shoes, with and without electrical contacts, for photoflash lamps and electronic photoflash units

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of camera accessory shoes, with and without electrical contacts, for photoflash lamps and electronic photoflash units. The dimensions given in the table are basic for the solid shoe. When an accessory shoe is equipped with springs or other devices for holding the accessory foot tightly or maintaining good electrical contact, the dimensions of the shoe may be changed within the range in which their interchangeability and functions will not be affected.

2 DIMENSIONS

The dimensions shall be as given in the table accompanying figures 2 and 3.

3 CONSTRUCTIONAL DETAILS

3.1 Accessory shoes with and without electrical contact

3.1.1 Clearance for the accessory equipment

3.1.1.1 A rectangular area, area A of figure 1, extending 12,5 mm (0.492 in) in front, 25,0 mm (0.984 in) at the

back of the shoe and 25,0 mm (0.984 in) to the right and to the left of the centre of the shoe, shall be devoid of obstruction higher than 2,0 mm (0.079 in) above the top surface of the shoe.

3.1.1.2 A circular area, area B of figure 1, of diameter 30,0 mm (1.181 in), located as dimensioned in figure 1, shall be devoid of obstructions higher than the top surface of the shoe.

3.1.2 Clearance for insertion of the accessory equipment foot

A rectangular area, area C of figure 1, extending 25,0 mm (0.984 in) from the back of the shoe and 20,0 mm (0.787 in) wide, shall be devoid of any obstruction above the plane of the base surface of the shoe.

ISO 518:1977

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3.2 Accessory shoes with electrical contacts

The electrical contact surface (dimension G of figure 2) shall be flat and the edge rounded off. The insulation resistance shall be not less than 30 MΩ when tested at between 0 and 40 °C and a relative humidity of 40 to 85 %.

Dimensions in millimetres

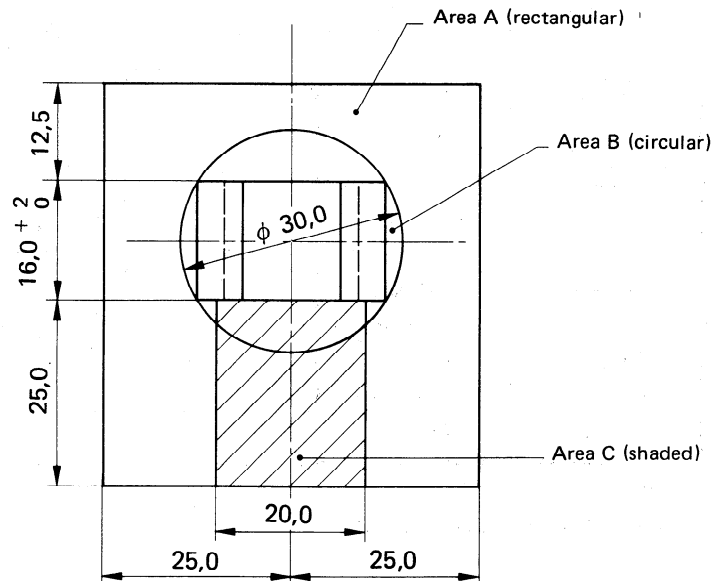
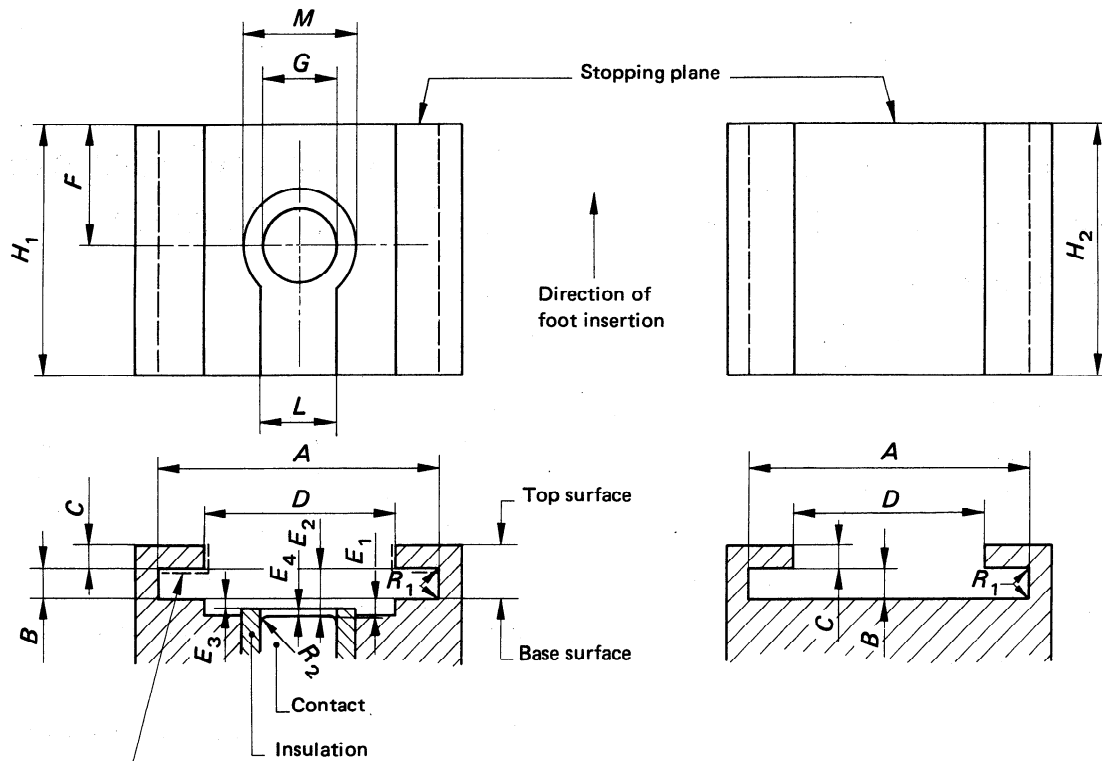


FIGURE 1 – Location of clearance areas



The shoe shall provide electrical contact at these surfaces which shall also be camera bodyground

FIGURE 2 – Camera accessory shoe with electrical contacts

FIGURE 3 – Camera accessory shoe without electrical contacts

TABLE – Basic dimensions of solid shoe

Dimension	mm	in	Dimension	mm	in
A	18,6 +0,2 0	0,732 +0,008 0	*F	8,7 0 -0,4	0,343 0 -0,016
B	2,0 +0,15 0	0,079 +0,006 0	*G	5,0 0 -1,0	0,197 0 -0,039
C	1,5 max.	0,059 max.	\equiv A 0,5		0,020
D	12,5 +0,4 0	0,492 +0,016 0	*H ₁	16,0 +2,0 0	0,630 +0,079 0
*E ₁	0,1 min.	0,004 min.	**H ₂	16,0 +3,0 -2,0	0,630 +0,118 -0,079
*E ₂	2,65 max.	0,104 max.	*L	5,0 min.	0,197 min.
*E ₃	0,1 min.	0,004 min.	\equiv A 0,5		0,020
*E ₄	0,35 max.	0,014 max.	*M	8,0 min.	0,315 min.
			\equiv G 0,5		0,020
			R ₁	0,3 max.	0,012 max.
			*R ₂	0,2 max.	0,008 max.

* Applies only to accessory shoes with electrical contacts.

** Applies only to accessory shoes without electrical contacts.

NOTES

1 The symbol \equiv denotes "symmetric to" (see ISO/R 1101, clause 3).

2 Where $E_3 \geq E_1$, the base surface shall be continuous to the insulation (localized recesses permitted).